

An Archaeological Determination of the Age of
Some Hydrolaccoliths (Pingos) in the Garmadon
Peninsula, by H. A. Grave, 3 pp.

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No 4, 1956, pp 706-707. CIA 9000076

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Sop 56 CMI/000

Solution of the First Boundary Value Problem
for Elliptical Equations by Means of Nets. by
D. P. Grossman, 7 pp. POST EDITED

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FTD-MT-63-329
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On the Relations Between Cross Sections Which
Result From the Hypothesis of Isotopic Invariance,
by N. Dushin, I. Shmushkevich, 4 pp.

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No 5, pp 801-~~804~~

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No 4, pp 805-~~806~~

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Electron in a Magnetic Field, by A. A. Kolomenskiy,
A. N. Lebedev, 4 pp.

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No 5, pp 807-~~808~~

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Fragment Energy Distribution From the Fission of
Uranium and Thorium by γ -Rays, by V. A. Korotkova,
P. A. Cherenkov, I. V. Chuvilo, 3 pp.

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No 5, pp 811-~~815~~

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A Note on the Systematization of Hyperons and Heavy
Mesons, by M. Markov, ⁴ pp.

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No 5, pp 814-~~817~~

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Relative Capture and Recombination Cross Sections of
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Relative Intensities of Fine Structure Components
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Vol I, No 1

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Hole Conductivity in Silver Bromide, by L. M. Shamovskiy, A. A. Dunina, M. I. Gosteva, 4 pp.

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On the Influence of Pressure on the Inter-Diffusion of Metals in Connection With the Effect of Pore Formation, by Ye. E. (Ye.) Geguzin.

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ABC Tr 2474

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The Influence of Temperature on the Weakening of
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Full tr

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**Mobility of Sulfur in Organothiophosphorus
Compounds; Trialkylthiophosphates and
Dialkyl dithiophosphates, by G. F. Nikiforin,
L. V. Galina, T. A. Mastryukova and M. I.
Kabanovsk, 4 pp.**

Full tr

**RUSSIAN, thrice-no per, Dok Ak Nauk SSSR,
Vol CVI, N No 5, 1976, p 648.**

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Dec 76 CTS**

TT-64-10198

Deryagin, B. V. and Dukhin, S. S.
ON THE MOTION OF AEROSOL PARTICLES IN A
DIFFUSION FIELD [O Dvizhenii Aerosol'nykh
Chastits v Pole Diffuzii]. [1963] 9p 11 refs
Order from OTS, SLA, or ETC \$1.10 TT-64-10198

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1956,
v. 106 [no. 5] p: 851-854. (Abstract available)
Another trans. is available from LC or SLA
n.i \$2.40, ph \$3.80 as TT-61-15731, RTS-1742,
Feb 61 [12p].

DESCRIPTORS: *Aerosols, Particles, Diffusion,
Motion, Evaporation, Condensation

The forces acting on a drop in a homogeneous field are
studied to clarify droplet behavior near surfaces at
which evaporation or condensation occurs. A first
approximation of a theory is mathematically derived.
(Physics, TT, v. 11, no. 11) (over)

I. Deryagin, B. V.
II. Dukhin, S. S.

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Electronic Phenomena in a Semiconducting
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Impurities Dissolved in the Lattice of Nickelous
Oxide on Its Catalytic Activity, by N. P. Keyer et al,

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No 5, pp 859-861, 1956.

Assoc Tech Sv
Tr No RJ-507
\$5.80 (\$1.40)

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Sci - Chemistry
Apr 1957 CTB/dex

KINETICS OF MULTISTAGE SEPARATION PROCESSES FOR
BINARY MIXTURES. THE RATE OF APPROACH TO STEADY
STATE CONDITIONS, by S. I. Babkov and G. A. Fedotkin
KODAK SAFETY FILM, N. M. Zhukovskiy, 5 pp.

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Dec 66 CWS

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CINÉTIQUE DE LA SÉPARATION DES MÉLANGES
BINAIRES, RÉALISÉE À L'AIDE DES COLONNES À
ÉCHELLES MULTIPLES: VITESSE DE MIGRATION
VERS L'ÉTAT STATIONNAIRE, tr. by
de Trevinsky. 21 June 60 [11]p. 7 refs. CEA Trans.
no. R 946 (text in French).
Order from OTS or SLA \$1.60 61-23733

Trans. in French of Akad[emiya] Nauk SSSR.
Doklady 1956, v. 106, no. 5, p. 877-880.

DESCRIPTORS: *Fractionation, *Mixtures, Sepa-
ration, *Distilling plants.

(Engineering--Chemical, TT, v. 6, no. 6)

61-23733

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- II. Yavoronkov, N. M.
- III. CEA-tr-R946
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l'Energie Atomique
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The Seismicity of the Arctic, by V. A. Tokarev,
3 pp.

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On the Coefficient Problem for p-Valent Functions, by
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Sept 63

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Effect of Boron on Cereals when there is insufficient Moisture in the Soil at the Critical Period of their Development, by V. G. Roshkova, F. D. Skazkin.

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Aug 67

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The Relations Between Cross Sections for Multiple
Fion Production, by N. V. Dushin, 4 pp.

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Ioffe, A.F., Airapetyants, S.V., and others.
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 DES THERMOCOUPLES DE SEMI CONDUCTEURS
 (On Increasing the Efficiency of Semiconductor Thermo-
 couples). 4p. 1ref. CNRS-X 404.
 Order from OTS, ETC or CNRS \$0.80 TT-62-28078

Trans. in French of Akademiya Nauk SSSR/ Doklady,
 1956, v. 106, no. 6, p. 981.
 A trans. is available in English from SLA as RT-4006, 2p.

DESCRIPTORS: *Semiconductors, *Thermocouples,
 *Crystal structure, Chemical elements.

TRANS IN ENGLISH: ADREA Met Soc

DDC X-32

HB 4075

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SLA R 452

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INT. SCI INFO SER, TRB T 214K

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(Physics--Solid State, TT, v. 11, no. 6)

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3 pp.

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No 6, pp 986-~~987~~

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An Analysis of Some Anomalous θ^0 -Decays, by E. M.
Fridlender, 5 pp.

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Full tr

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Full tr

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The Mobility of Sulfur in the Methyl Ester
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Ethyl Xanthate, by I. I. Kulichenko, L. E.
Burkner and G. P. Mikulichin. 4 pp.

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Isomeric Transformation of HYDROGEN OVER
Aluminosilicates and Their Demethylation in
the Presence of Benzene, by Yu. G. Mametaliyev,
A. V. Topchikov, G. N. Mametaliyev, and G. N.
Suleimanov, 3 pp.

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(Kinetic Study of the Sulfuric Acid Electrolytic Oxidation). 7p. 6refs. CNRS-VIII bis 731.
Order from OTS, ETC or CNRS \$0.90 TT-62-26376

Trans. ~~in~~ French of Akademiya Nauk SSSR Doklady...
1956, v.106, no.6, p.1039-1041.

DESCRIPTORS: *Sulfuric acid, Kinetic theory, *Oxidation, Electrochemistry.

(Chemistry--Physical, TT, v. 11, no. 6)

TT-62-26376

I. Efimov, E.A.
II. Izgaryshev, N.A.
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The Acid-Base Mechanism of Adsorption on Silica Gel, by
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The Determination of the Nickel-
Electrode Capacity From the Drop in
Potential After Turning Off the
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Intake and Distribution of Tracer Phosphorous by
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Dec 56 CTB

The Chemical Mechanism of the Oxidation of Propane
in the Gas Phase, by V. M. Byr'ko, et al.

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R-1994. Some physicochemical properties of compounds of the transitional refractory metals with boron, carbon, and nitrogen, and the characteristics of their binary alloys. Doklady Akad. Nauk SSSR, 27, p.9-125, 1956. (40p.) (AEC-tr-3016)

(NY-5591)

Self-Similar Problem of the Development of a
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No 1, Mar 1956, pp 29-32.

JPRS 7587

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Apr 61

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On the True Shape of X-Ray Spectra, by M. A. Blokhin,
4 pp.

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Hyperons by Their Large Spin, I. I. Gurevich, 2 pp.

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No 1, pp 41-42

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Aug 57

The Interaction of 300 MEV π^- -Mesons With Protons,
Deuterons, and Nuclei in Nuclear Emulsions, by
L. S. Dulkova, T. A. Romanova, I. B. Sokolova,
L. V. Sukhov, D. E. Tolstoy, M. G. Shafronova,
4 pp.

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AEC Tr 2492

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Axially Symmetric Electron Beams of a Given Shape,
by V. T. Ovcharov, 4 pp.

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No 1, pp 47-~~50~~.

JAA 62-3107
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Unusual ν^0 -Decay, by E. Friedlander, S. Bercea,
3 pp.

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Effect of Variable Flux of Positive Solar Particles
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No 1, 1956, pp 59-62, Encl to IR-760-57, OAIRA,
Ottawa.

Ref: AF 1146222

Dir Sci Info Sv

DRB T 258R

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Sci - Geophysics
Jan 58

Thresholds of Color Discrimination in Microdetails
of Color Photography Images in Terms of Dye Concentra-
tion Values, by Ya. N. Gorokhovskiy, K. B. Popova,
9 pp.

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No 1, 1956, pp 63-66.

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(C19/X-2632)

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Bond Energies and Heterogeneous Catalysts, by A. A.
Balandin, 4 pp.

Full tr

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No 1, p 85.

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Dec 56 CHS

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Thermal Chlorination of Propane, by B. A. Krentsel,
Academician A. V. Topchayev, and D. E. Ilyina, 4 pp.

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The Rule of Anvers-Skita and the Properties of
Stereoisomeric 1,4-Diisopropylcyclohexanes, by A. L.
Liberman, T. V. Lapshina, and N. A. Kazansky, 4 pp.

Full tr

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CVII,
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Experimental Study of Equilibrium Conditions During the Reaction of Zinc Oxide with Zinc Sulfide, by A. I. Okunev, and L. A. Popovkina, 2 pp.

Full tr

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Consultants Bureau

Sci - Chemistry
Dec 56 CTS

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The Direct Synthesis of Alkyl- and Alkenylchlorosilanes from 1,1-Dichloro-ethane and 2,2-Dichloropropane, by A. D. Petrov, S. I. Sadykhzade, and I. L. Tsetlin, 4 pp.

Full tr

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A New Method of Synthesis of Polyenic Ketones with
Conjugated Double Bonds, by (Ml. I. Samokhvalov, M.
A. Miropolskaya, and N. A. Proobrashensky, 2 pp.

Full tr

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Dec 56 CTS

Venstrem, E. K., Likhtman, V. I., and Reblinder,
P. A.

ELECTROCAPILLARY EFFECT OF HARDNESS
REDUCTION AND OF EXTERNAL FRICTION OF
METALS. [1962] 7p. 19 refs.

Order from OTS or SLA \$1.10

62-16677

Trans. of Akademiya Nauk SSSR, Doklady, 1956, v. 107,
p. 105-107.

DESCRIPTORS: *Metals, Friction, Hardness, Reduction,
*Mechanical properties, Electrolytes, Electric poten-
tial, Electrical double layer, *Electrochemistry.

Values of potentials of the neutral charge on hard metals
(in relation to the standard weight of electrolyte) are
tabulated.

(Metallurgy, TT, v. 9, no. 4)

(over)

Office of Technical Services

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OTS TT-62-28578

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I. Venstrem, E. K.
II. Likhtman, V. I.
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New Method of Demonstration of the Physical and
Chemical Adsorption on Oxide Semiconductor
Catalysts, by S. Yu. Elovich, L. Ya. Margolis.
6 pp. USSR

RUSSIAN, FOR, Dokl Akad Nauk USSR (1956),
Vol CVII, 1956, pp 112-114. CIA 9935026

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Jun 59

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Distribution of Elements in Paleozoic Clays of the
Volga-Ural Region, by S. M. Hatchenkov, 6 pp.

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Thermal Analysis as a Method for the Determination
of the Degree of Kaolinization of Spodumene, by
S. G. Tumanov, G. N. Maslennikova, 4 pp.

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Investigation of the Nature of Oxide-Type Flaws in
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Vibration of Thin-Walled Elastic Bodies in a Gas
Flow, by G. I. Kopzon, 6 pp.

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No 2, 1956, pp 217-220.

Morris D. Friedman

\$3.00

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Hypersonic Gas Flow Around a Body, by G. G.
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No 2, 1956, pp 221-224.

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10-7-2-101

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Instrumental Distortion of X-Ray Spectra, by M. A.
Blokhin, 4 pp.

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No ~~2~~, pp 229- ~~232~~

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Vol I, No 2

Sci - Phys

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Primary Ionization by Fast Muons, by G. P. Elisseyev,
V. A. Lyubimov, A. M. Frolov, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CVII,
No 2, pp 233-~~235~~

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Diffusion Chamber Study of Negative Pion Scattering
in Hydrogen, by M. Kozodayev, R. Suliayev, A. Filippov,
Yu. Shcherbakov, 4 pp.

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The Application of Fermi's Equation to the Polarization of Scattered Fast Nucleons, by I. I. Levintov,
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